(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 28 April 2005 (28.04.2005)

PCT

(10) International Publication Number WO 2005/039074 A1

(51) International Patent Classification7:

H04B 7/185

(74) Agent: SHINSUNG PATENT FIRM; 2F, Line Bldg., 823-30 Yeoksam-dong, Kangnam-ku, Seoul 135-080 (KR).

(21) International Application Number:

PCT/KR2004/000967

(22) International Filing Date: 27 April 2004 (27.04.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 10-2003-0072769 18 October 2003 (18.10.2003) KR

(71) Applicant (for all designated States except US): ELECTRONICS AND TELECOMMUNICATION RESEARCH INSTITUTE [KR/KR]; 161, Gajeong-dong, Yuseong-gu, Daejon 305-350 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): LEE, Yong-Min [KR/KR]; #112-1101 Hanbit Apt., Eoeun-dong, Yuseong-gu, Daejon 305-755 (KR). EUN, Jong-Won [KR/KR]; #502-1702 Expo Apt., Jeonmin-dong, Yuseong-gu, Daejon 305-762 (KR). LEE, Seong-Pal [KR/KR]; #109-602 Narae Apt., Jeonmin-dong, Yuseong-gu, Daejon 305-729 (KR).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,

KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG,

MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,

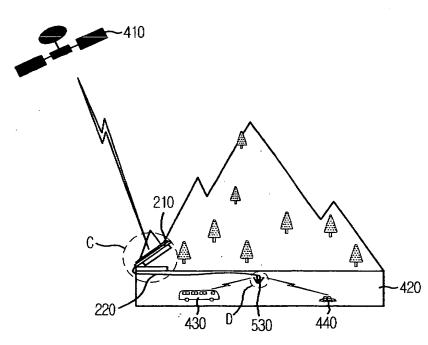
Published:

with international search report

GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: APPARATUS FOR REPEATING SIGNAL USING MICROSTRIP PATCH ARRAY ANTENNA



(57) Abstract: An apparatus for repeating a signal from a satellite using a microstrip patch array antenna is disclosed. The apparatus includes: a receiving unit for receiving the signal and amplifying the receiving signal; a radiating unit for radiating the amplified signal to the shadow area; and a feeding unit for feeding the amplified signal to the radiating unit.



WO 2005/039074 AJ